

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Adam T. Zemla Docket No. : IL-11160
Serial No. : Art Unit :
Filed : Examiner :
For : LOCAL-GLOBAL ALIGNMENT FOR FINDING 3D
SIMILARITIES IN PROTEIN STRUCTURES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Alexandria, VA 22313-1450

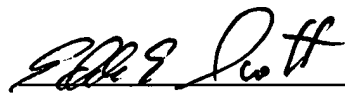
Dear Sir:

Forwarded herewith is an Information Disclosure Statement, Form-1449, in the above-identified application. Copies of the cited references are enclosed: 2 U.S. Patent Documents, 3 Foreign Patent Documents, and 5 Other Disclosures.

The above-mentioned disclosures, which are not admitted as prior art, are identified on the enclosed Form 1449.

Respectfully submitted,

Dated: *February 18, 2004*



Eddie E. Scott
Attorney for Applicant
Registration No. 25,220

Enclosures: As noted above

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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	
		Filing Date	
		First Named Inventor	Adam T. Zemla
		Group Art Unit	
		Examiner Name	
Sheet 1 of 2	Attorney Docket Number	IL-11160	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		2002/0150906	A1	Debe	10-17-2002	
		2003/0130797	A1	Skolnick, et al.	07-10-2003	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
			WO 93/01484		Eisenberg, et al.	01-21-1993	
			WO 98/48270		Goddard, et al.	10-29-1998	
			WO 00/11206		Skolnick, et al.	03-02-2000	

Examiner Signature		Date Considered	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		Group Art Unit	
		Examiner Name	
Sheet 2 of 2	Attorney Docket Number		IL-11160

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	2
		ZEMLA, A., "LGA: a method for finding 3D similarities in protein structures," Nucleic Acids Research, Oxford University Press, Vol. 31, No. 13, 2003, pp. 3370-3374		
		ZU-KANG, F., et al., "Optimum superimposition of protein structures: ambiguities and implications," Research Paper, Folding & Design, Center for Applied Molecular Engineering, Institute for Chemistry and Biochemistry, University of Salzburg, Austria, Feb. 26, 1996, pp.123-132		
		LACKNER, P., et al., "ProSup: a refined tool for protein structure alignment," Protein Engineering, Oxford University Press, Vol. 13, No. 11, 2000, pp. 745-752		
		SHINDYALOV, I., et al., "Protein structure alignment by incremental combinatorial extension (CE) of the optimal path," Protein Engineering, Vol. 11, No. 9, 1998, pp. 739-747		
		HOLM, L., et al., "Protein Structure Comparison by Alignment of Distance Matrices," J. Mol. Biol., Vol. 233, 1993, pp. 123-138		

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